

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P258964

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2441.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

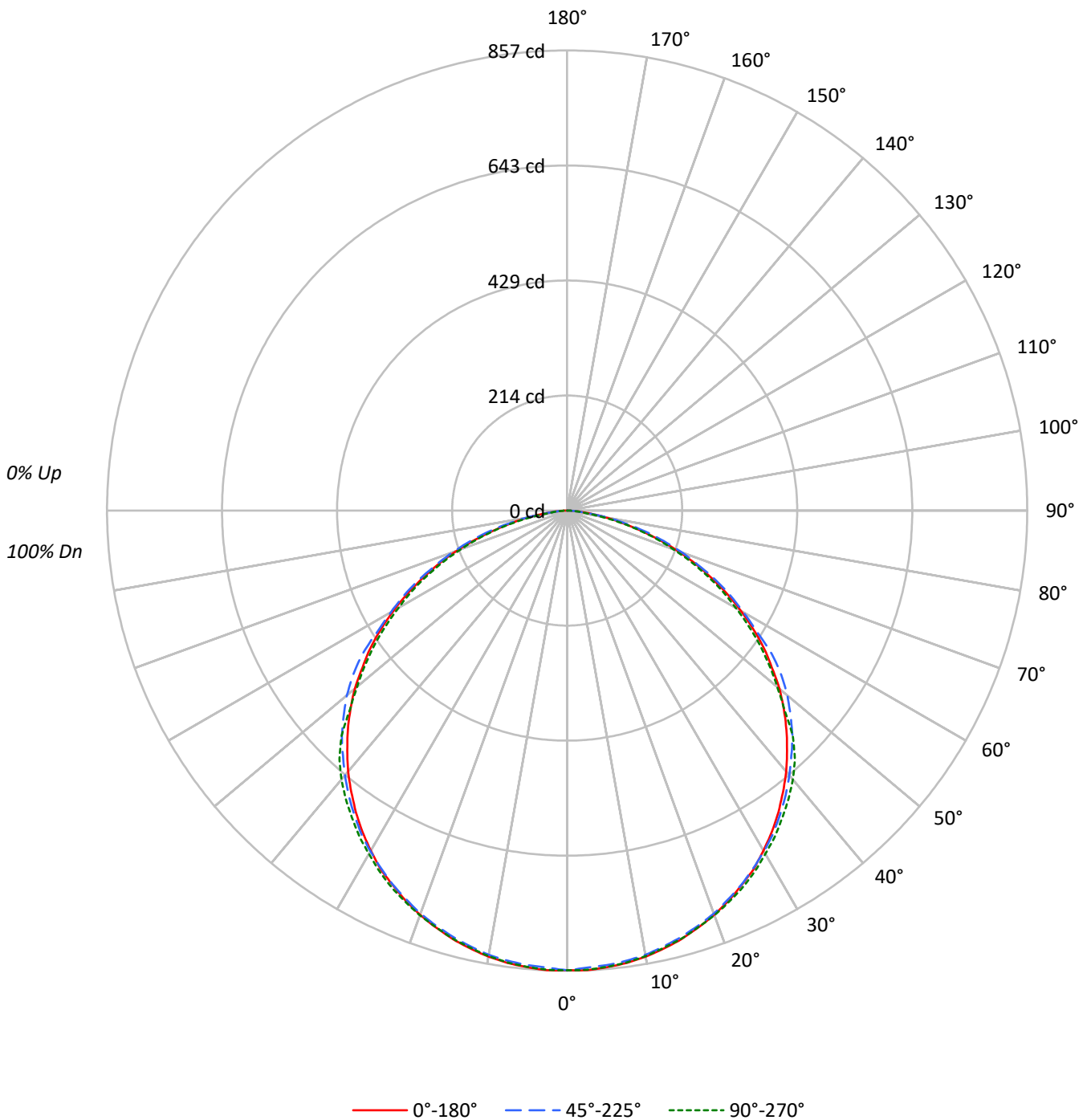
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2304	2304	2304
5°	2306	2295	2304
10°	2304	2296	2302
15°	2301	2290	2298
20°	2294	2288	2297
25°	2284	2282	2298
30°	2272	2277	2294
35°	2253	2271	2295
40°	2230	2261	2297
45°	2198	2259	2262
50°	2161	2241	2138
55°	2101	2183	2061
60°	2012	2042	1953
65°	1885	1935	1834
70°	1715	1784	1659
75°	1431	1564	1407
80°	1134	1196	975
85°	738	639	565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	3.3
10°-20°	232.8	9.5
20°-30°	355.3	14.6
30°-40°	433.2	17.7
40°-50°	453.6	18.6
50°-60°	403.6	16.5
60°-70°	297.7	12.2
70°-80°	153.8	6.3
80°-90°	29.9	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	669.1	27.4
0°-40°	1102.4	45.2
0°-60°	1959.5	80.3
0°-90°	2441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	854	853	850	853	853	81
15°	826	825	822	825	825	233
25°	769	769	769	774	774	355
35°	686	687	691	699	698	429
45°	578	582	594	599	594	445
55°	448	458	465	446	439	399
65°	296	317	304	294	288	293
75°	138	152	150	138	135	149
85°	24	26	21	19	18	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.1	856.1	856.1	856.1	856.1
2.5°	856.9	856.1	852.1	856.1	856.1
5°	853.7	852.9	849.7	852.9	852.9
7.5°	849.7	848.9	845.7	848.9	848.9
10°	843.3	842.5	840.2	843.3	842.5
12.5°	835.4	835.4	831.4	835.4	833.8
15°	825.8	825.0	821.9	825.0	825.0
17.5°	813.9	813.1	810.7	814.7	813.1
20°	801.2	800.4	798.8	802.8	802.0
22.5°	786.1	786.1	783.7	788.4	788.4
25°	769.3	769.3	768.6	774.1	774.1
27.5°	752.6	751.0	751.0	756.6	757.4
30°	731.2	731.2	732.7	739.1	738.3
32.5°	709.7	710.5	713.7	719.2	720.0
35°	685.8	686.6	691.4	699.3	698.5
37.5°	660.3	662.7	668.3	677.1	677.1
40°	634.9	636.5	643.6	653.2	654.0
42.5°	606.2	610.2	618.2	629.3	627.7
45°	577.6	581.6	593.5	599.1	594.3
47.5°	547.4	552.1	564.1	564.9	549.0
50°	516.3	521.9	535.4	519.5	510.8
52.5°	480.5	490.9	502.8	480.5	475.0
55°	447.9	457.5	465.4	445.5	439.2
57.5°	411.3	424.1	418.5	408.9	401.0
60°	373.9	387.5	379.5	370.0	362.8
62.5°	335.7	350.9	342.9	333.4	327.0
65°	296.0	316.6	303.9	293.6	288.0
67.5°	258.6	278.5	263.3	255.4	249.8
70°	218.0	234.7	226.7	216.4	210.8
72.5°	178.2	190.9	188.6	177.4	173.4
75°	137.6	152.0	150.4	138.4	135.3
77.5°	103.4	117.0	112.2	102.6	98.7
80°	73.2	81.9	77.2	66.0	62.9
82.5°	44.6	51.7	43.8	37.4	34.2
85°	23.9	26.3	20.7	19.1	18.3
87.5°	8.8	8.8	8.8	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)